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490 7590 06/24/2005

VIDAS, ARRETT & STEINKRAUS, P.A.
6109 BLUE CIRCLE DRIVE
SUITE 2000
MINNETONKA, MN 55343-9185

09/22/2005 TBESHAN2 00000032 220350 10643239

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Robin Peddieson (Depositor's name)
Robin Peddieson (Signature)
September 21, 2005 (Date)

01 FC:1501 1400.00 DA
02 FC:1504 300.00 DA

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/643.239 | 08/18/2003 | Ig Saeng Kim | S40.2B-11278-US01 | 3289 |

TITLE OF INVENTION: HEAT DRIVEN ACOUSTIC ORIFICE TYPE PULSE TUBE CRYOCOOLER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|---------------------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$300 | \$1700 | 09/26/2005 |
| EXAMINER | | ART UNIT | CLASS-SUBCLASS | | |
| DOERRLER, WILLIAM CHARLES | | 3744 | 062-006000 | | |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

Vidas, Arrett & Steinkraus PA

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

LS CABLE LTD

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Seoul 150-010 Korea

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

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5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

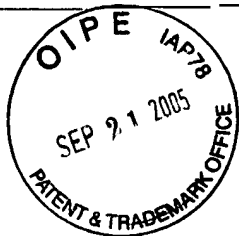
Date: September 21, 2005

Typed or printed name: Scott Q. Vidas

Registration No. 30812

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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PATENT

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| | |
|-----------------------|--|
| In Re Application of: | Ig Saeng KIM, Chun Dong KIM, Chang Ho LEE, Kyun Seok KIM, Do Hyung KIM |
| Application No.: | 10/643239 |
| Filed: | August 18, 2003 |
| For: | HEAT DRIVEN ACOUSTIC ORIFICE TYPE PULSE TUBE CRYOCOOLER |
| Examiner: | Not Known |
| Group Art Unit: | 3743 |

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Docket No.: S40.2-11278-US01

FACSIMILE TRANSMITTAL LETTER

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GROUP ART UNIT: 3743

TOTAL NUMBER OF PAGES (including cover letter): 3

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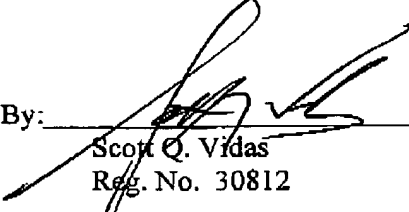
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Respectfully Submitted,

VIDAS, ARRETT & STEINKRAUS, P.A.

Date: September 21, 2005

By:


Scott Q. Vidas
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